

GenCore version 5.1.8
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: May 18, 2006, 07:32:33 ; Search time 0.001 Seconds

(without alignments)
964.906 Million cell updates/sec

Title: US-10-689-461-2

Perfect score: 2081
Sequence: 1 MEYWPMEGCGMSGRPTTSF.....QELSSNPPLATILIPPHARI 394

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 6 seqs, 2449 residues

Total number of hits satisfying chosen parameters: 6

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 6 summaries

Database : US10689461_mod.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2024	97.3	420	1	US-10-689-461-1
2	1883.5	90.5	361	1	US-10-689-461-3
3	1609	77.3	447	1	US-10-689-461-5
4	1609	77.3	483	1	US-10-689-461-4
5	1588	76.3	351	1	US-10-689-461-7
6	1588	76.3	387	1	US-10-689-461-6

ALIGNMENTS

RESULT 1
US-10-689-461-1
; Sequence 1, Application US/10689461
; GENERAL INFORMATION:
; APPLICANT: Harrison, Stephen D.
; APPLICANT: Hall, John A.
; APPLICANT: Calderon-Caccia, Maria
; APPLICANT: Zhong, Ziyang
; APPLICANT: Fang, Eric Y.
; APPLICANT: Coit, Doris G.
; APPLICANT: Nguyen, Steve H.
; APPLICANT: Medina-Selby, Angelica
; TITLE OF INVENTION: GSK3 POLYPEPTIDES
; FILE REFERENCE: 59516-162/PP-15876.002/200130.524
; CURRENT APPLICATION NUMBER: US/10/689,461
; CURRENT FILING DATE: 2003-10-20
; PRIOR APPLICATION NUMBER: US/10/211,412
; PRIOR FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: US09/916,109
; PRIOR FILING DATE: 2001-07-25
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 1
; LENGTH: 420
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-689-461-1

Query Match 97.3%; Score 2024; DB 1; Length 420;

Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;

Matches 384; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	11	MSGRRPTTSFAESCKPVQPSAFSGMKVSRDKGSKYTTVATPGQPPDRQEVSYTDTK 70
Db	1	MSGRRPTTSFAESCKPVQPSAFSGMKVSRDKGSKYTTVATPGQPPDRQEVSYTDTK 60
Qy	71	VINGSGFGVYQAKLDSGSELVAIKVLQDKRFNRELQIRKLDHCNLYRLRFFPSG 130
Db	61	VINGSGFGVYQAKLDSGSELVAIKVLQDKRFNRELQIRKLDHCNLYRLRFFPSG 120
Qy	131	EKDEYVNLNVLDPVPTVYRVARHYSRAKOTLPVIVKLYMQLPFSLAYIHSFGICHR 190
Db	121	EKDEYVNLNVLDPVPTVYRVARHYSRAKOTLPVIVKLYMQLPFSLAYIHSFGICHR 180
Qy	191	DIKQNLILDPDPAVLKLCDFGSAKQLYRGEPNVSYICSRYYRAPELIFGATDYTSSIDV 250
Db	181	DIKQNLILDPDPAVLKLCDFGSAKQLYRGEPNVSYICSRYYRAPELIFGATDYTSSIDV 240
Qy	251	WSACVLAELILGQPIFGDSGVQDLVEIIVKLTGTPREQIRENNPNYTEKFPQIRAH 310
Db	241	WSACVLAELILGQPIFGDSGVQDLVEIIVKLTGTPREQIRENNPNYTEKFPQIRAH 300
Qy	311	WTKYFRRTPEALACSRLEVTPTARLTPLACAFSPDELRDPVKKHNGDTPALF 370
Db	301	WTKYFRRTPEALACSRLEVTPTARLTPLACAFSPDELRDPVKKHNGDTPALF 360
Qy	371	NFTQELSSNPPLATILIPPHARI 394
Db	361	NFTQELSSNPPLATILIPPHARI 384

RESULT 2
US-10-689-461-3
; Sequence 3, Application US/10689461
; GENERAL INFORMATION:
; APPLICANT: Harrison, Stephen D.
; APPLICANT: Hall, John A.
; APPLICANT: Calderon-Caccia, Maria
; APPLICANT: Zhong, Ziyang
; APPLICANT: Fang, Eric Y.
; APPLICANT: Coit, Doris G.
; APPLICANT: Nguyen, Steve H.
; APPLICANT: Medina-Selby, Angelica
; TITLE OF INVENTION: GSK3 POLYPEPTIDES
; FILE REFERENCE: 59516-162/PP-15876.002/200130.524
; CURRENT APPLICATION NUMBER: US/10/689,461
; CURRENT FILING DATE: 2003-10-20
; PRIOR APPLICATION NUMBER: US/10/211,412
; PRIOR FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: US09/916,109
; PRIOR FILING DATE: 2001-07-25
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-689-461-3

Query Match 90.5%; Score 1883.5; DB 1; Length 361;
Best Local Similarity 91.6%; Pred. No. 0;
Matches 361; Conservative 0; Mismatches 0; Indels 33; Gaps 1;
Qy 1 MEYWPMEGCGMSGRPTTSFAESCKPVQPSAFSGMKVSRDKGSKYTTVATPGQPPDR 60
|||||

```
Db      1 MEYPMEGG-----GSKVTTVATPGGPR 27
Qy      61 POEVSYDTKVIKNGSGFVVYQAKLCSGELVAIKKVLQDKFRKRELQIMRKLDHCNIV 120
Db      28 POEVSYDTKVIKNGSGFVVYQAKLCSGELVAIKKVLQDKFRKRELQIMRKLDHCNIV 87
Qy      121 RLRYFSSGKKEVYLVLDVYPEVYRVARHYSRAKOTLPVIVYKLYMQLFRSLA 180
Db      88 RLRYFSSGKKEVYLVLDVYPEVYRVARHYSRAKOTLPVIVYKLYMQLFRSLA 147
Qy      181 YIHSFGICHRDIKQNLILDDPTAVLKCDFGSAKQLVGEPNVSYICSRYYRAPELIFG 240
Db      148 YIHSFGICHRDIKQNLILDDPTAVLKCDFGSAKQLVGEPNVSYICSRYYRAPELIFG 207
Qy      241 ATDYTSIDWSAGCVLAEILLGQPIFPDGSVDQVLEIIVLGTPTREQIREMNPANTE 300
Db      208 ATDYTSIDWSAGCVLAEILLGQPIFPDGSVDQVLEIIVLGTPTREQIREMNPANTE 267
Qy      301 FKFPQIKAHPTKVFPRPTPEALALCSRLEETPTARLTPEACAHSPFDELDPNVKH 360
Db      268 FKFPQIKAHPTKVFPRPTPEALALCSRLEETPTARLTPEACAHSPFDELDPNVKH 327
Qy      361 PNGRDTPALFNFTTQELSSNPPLATILIPPHAR 394
Db      328 PNGRDTPALFNFTTQELSSNPPLATILIPPHAR 361

RESULT 3
US-10-689-461-5
; Sequence 5, Application US/10689461
; GENERAL INFORMATION:
; APPLICANT: Harrison, Stephen D.
; APPLICANT: Hall, John A.
; APPLICANT: Calderon-Caccia, Maria
; APPLICANT: Zhong, Ziyang
; APPLICANT: Fang, Eric Y.
; APPLICANT: Colt, Doris G.
; APPLICANT: Nguyen, Steve H.
; APPLICANT: Medina-Selby, Angelica
; TITLE OF INVENTION: GSK3 POLYPEPTIDES
; FILE REFERENCE: 59516-162/PP-15876.002/200130.524
; CURRENT APPLICATION NUMBER: US/10/689,461
; PRIOR FILING DATE: 2003-10-20
; PRIOR APPLICATION NUMBER: US/10/211,412
; PRIOR FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: US09/916,109
; PRIOR FILING DATE: 2001-07-25
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-689-461-5

Query Match      77.3%; Score 1609; DB 1; Length 447;
Best Local Similarity 80.6%; Pred. No. 0;
Matches 312; Conservative 24; Mismatches 37; Indels 14; Gaps 3;
```

```
Db      240 VCHRDIKQNLILDDPTAVLKCDFGSAKQLVGEPNVSYICSRYYRAPELIFGATDYS 299
Qy      247 SIDWSAGCVLAEILLGQPIFPDGSVDQVLEIIVLGTPTREQIREMNPANTEFKPQI 306
Db      300 SIDWSAGCVLAEILLGQPIFPDGSVDQVLEIIVLGTPTREQIREMNPANTEFKPQI 359
Qy      307 KAHPTKVFPRPTPEALALCSRLEETPTARLTPEACAHSPFDELDPNVKHNGRDT 366
Db      360 KAHPTKVFPRPTPEALALCSRLEETPTARLTPEACAHSPFDELDPNVKHNGRDT 419
Qy      367 PALFNFTTQELSSNPPLATILIPPHAR 393
Db      420 PALFNFTTQELSSNPPLATILIPPHAR 446

RESULT 4
US-10-689-461-4
; Sequence 4, Application US/10689461
; GENERAL INFORMATION:
; APPLICANT: Harrison, Stephen D.
; APPLICANT: Hall, John A.
; APPLICANT: Calderon-Caccia, Maria
; APPLICANT: Zhong, Ziyang
; APPLICANT: Fang, Eric Y.
; APPLICANT: Colt, Doris G.
; APPLICANT: Nguyen, Steve H.
; APPLICANT: Medina-Selby, Angelica
; TITLE OF INVENTION: GSK3 POLYPEPTIDES
; FILE REFERENCE: 59516-162/PP-15876.002/200130.524
; CURRENT APPLICATION NUMBER: US/10/689,461
; PRIOR FILING DATE: 2003-10-20
; PRIOR APPLICATION NUMBER: US/10/211,412
; PRIOR FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: US09/916,109
; PRIOR FILING DATE: 2001-07-25
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 483
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-689-461-4

Query Match      77.3%; Score 1609; DB 1; Length 483;
Best Local Similarity 80.6%; Pred. No. 0;
Matches 312; Conservative 24; Mismatches 37; Indels 14; Gaps 3;
```

```

Db          420 PPLPFSAGELSTOPSINAILIIPHLR 446

RESULT 5
US-10-689-461-7
; Sequence 7, Application US/106689461
; GENERAL INFORMATION:
; APPLICANT: Harrison, Stephen D.
; APPLICANT: Hall, John A.
; APPLICANT: Calderon-Cacela, Maria
; APPLICANT: Zhong, Ziyang
; APPLICANT: Pang, Eric Y.
; APPLICANT: Colt, Doris G.
; APPLICANT: Nguyen, Steve H.
; APPLICANT: Medina-Selby, Angelica
; TITLE OF INVENTION: GSK3 POLYPEPTIDES
; FILE REFERENCE: 59516-1632/JP-15876.002/200130.524
; CURRENT APPLICATION NUMBER: US/10/689,461
; CURRENT FILING DATE: 2003-10-20
; PRIOR APPLICATION NUMBER: US/10/211,412
; PRIOR FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: US09/916,109
; PRIOR FILING DATE: 2001-07-25
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-689-461-7

Query Match          76.3%; Score 1588; DB 1; Length 351;
Best Local Similarity 86.2%; Pred. No. 0;
Matches 300; Conservative 22; Mismatches 26; Indels 0; Gaps 0

QY      46 KTTTAAATPGGQPDPRQGEVSYTDIKVINGSGFVVYQAKLCDSGSLVAIKKVLQDKRFKN 105
        |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db      3 KTTTAAATAGGQPEKSGEAAVTDIKIVNGSGVVYQARLAETRELVAIKKVLQDKRFKN 62

QY      106 RELQIMRLDHCNIVRLALFPFSSGKKDEYVNLVTLDYVPEPTVYRVARHNSRAQOTLPV 165
        |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db      63 RELQIMRLDHCNIVRLALFPFSSGKKDEYVNLVTLEVPETVYRVARHNFKAULTIPI 122

QY      166 IYVLYLWYQLFRSLAYIHSFGICHRDIKPONLLDPTPAVYKLCDFGSAKQLVREPNVS 225
        |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db      123 LYVAVVWYQLFRSLAYIHSQGVCHRDIKPQNLVDPDTAVLKLCDFGSAKQLVREPNVS 182

QY      226 YICRRYYPAPELLFGATDYTSSIDVWSAGCVLAELLGQPIFPGDSGVQDLVEIIKVLGT 285
        |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db      183 YICRRYYPAPELLFGATDYTSSIDVWSAGCVLAELLGQPIFPGDSGVQDLVEIIKVLGT 242

QY      286 PTRSQIRRMNNYTFEKKFQIKAHNMTVYFPRPTPEPAIALCSRLLETPPARLPLPLAC 345
        |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db      243 PTRSQIRRMNNYTFEKKFQIKAHNMTVYFPRPTPEPAIALCSRLLETPPSRLSPLAC 302

QY      346 AHSFDELRDPNVKHPNGRDTPALPFTTQELSSNPPLATILIPPHAR 393
        |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db      303 AHSFDELRCLGTQLPNNRPPLPPLFNSAGELSTOPSINAILIIPHLR 350

RESULT 6
US-10-689-461-6
; Sequence 6, Application US/106689461
; GENERAL INFORMATION:
; APPLICANT: Harrison, Stephen D.
; APPLICANT: Hall, John A.
; APPLICANT: Calderon-Cacela, Maria
; APPLICANT: Zhong, Ziyang
; APPLICANT: Fang, Eric Y.
; APPLICANT: Colt, Doris G.
; APPLICANT: Nguyen, Steve H.
; APPLICANT: Medina-Selby, Angelica
; TITLE OF INVENTION: GSK3 POLYPEPTIDES

```

```

; FILE REFERENCE: 59516-162/PP-15976_002/200130.524
; CURRENT APPLICATION NUMBER: US/10/689_461
; CURRENT FILING DATE: 2003-10-20
; PRIOR APPLICATION NUMBER: US/10/211_412
; PRIOR FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: US09/916_109
; PRIOR FILING DATE: 2001-07-25
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 387
; TYPE: prt
; ORGANISM: Homo sapiens
; US-10-689-461-6

Query Match      76.3%; Score 1588; DB 1; Length 387;
Best Local Similarity 86.2%; Pred. No. 0;
Matches 300; Conservative 22; Mismatches 26; Indels 0; Gaps 0;

QY      46 KTTTAVATPGGQPRPQEVSYTDTRKVTGNGSFGVYVQAOKLCDSGELVAIKKVLQDKRFKN 105
DB      3 KTTTAVATLGGPSPRSQEVAYTDLKVGNGSFGVYVQARLLETRELVAIKKVLQDKRFKN 62
QY      106 RELQIMRLDHCNIVRLRPFYFSSGKKDELYLNLVDVYBETVYRVARHYSRAKQTLPIV 165
DB      63 RELQIMRLDHCNIVRLRPFYFSSGKKDELYLNLVETVEIVYRVARHHTKAKTLPI 122
QY      166 IYKLVYMYQLFRSLAYIHSFGICHRDIDKPOLMLLDPDAVVLKCDPFSAKOLVNGEPNVS 225
DB      123 LVAVVYMYQLFRSLAYIHSQGVCHRDIKPOLVLVDPDAVVLKCDPFSAKOLVNGEPNVS 182
QY      226 YICRRYRAPPELLIGATIDYTSIDVWSAGCYLAELLGQPIFFPGDSGVQDLVEIILKVLGT 285
DB      183 YICRRYRAPPELLIGATIDYTSIDVWSAGCYLAELLGQPIFFPGDSGVQDLVEIILKVLGT 242
QY      286 PTRSOIEMNNYNYEFPKPOIKAHPMKTVPRPRTPEPAIALCSRLLETPTARILTPLEAC 345
DB      243 PTRSOIREMNNYNYEFPKPOIKAHPMKTVKFSKRTPEPAIALCSRLLETPTESRSLPLEAC 302
QY      346 AHSEFDELQDNPVHGPNGRDTPALFNFTTQELSSNPPLATILIPPHAR 393
DB      303 AHSEFDELQCLGTQLPNNRPLPLPFFNFSAGELSLQPSLNAILIIPPHAR 350

```

Search completed: May 18, 2006, 07:32:37
Job time : 0.001 secs

This Page Blank (uspto)